General Index

A

Acanthohaustorius, 148–9, 153
  millsi, 135
Acris crepitans, 97
Adams, S. M., and J. W. Angelovic, 249–54
Adaptive radiation,
  amphipod crustaceans, 152–3
Agardhiella tenera, 61–2
Air gun, 114–5
Alewife, 37, 38, 40, 242
Algae, marine, 61, 62
Aligena elevata, 172
Allen M., and M. W. Paparella, 111–16
Alopias vulpinus, 242
Alosa aestivalis, 239, 242
  mediocris, 242, 243
  pseudoharengus, 134, 242
  sapidissima, 242
American eel, 38, 39, 40, 243
American shad, 242
Ammonia analysis, 155–7
Ampelisca macrocephala, 172
  verrilli, 161, 168
Amphiodia atra, 169, 170
Amphipod crustaceans, 143, 146, 149, 151, 152
  adaptive modification, 150, 153
  adaptive radiation, 152, 153
  distribution 149, 150, 152
  body form, 144, 147, 148, 153
Amphipod, haustoriid, 134–6
Amphipoda, 135
Amphiporea, 146, 149, 151
Amphiporeia virginiana, 135
Amphitrite ornata, 163, 170, 229–32
Amphithoe longimana, 168, 169, 172
Anachis avara, 164, 172
Anadara (Scapharca) subcrenata, 164
  transversa, 161, 164, 165, 172
Anchoa hepsetus, 238–41, 243
  mitchilli, 133, 134, 237–41, 243
Anchor gillnet, 81
Anchovy, bay, 243
  striped, 243
Angel shark, 242
Angelovic, J. W., and S. M. Adams, 249–54
Anguilla rostrata, 133–4, 240, 243
Anomia simplex, 161–5, 172
Antithamnion cruciatum, 62
Apeltes quadracus, 244
Aphredederus sayanus, 177
Arabella iricolor, 229, 231, 232
Arca umbonata, 164
Arenicola marina, 131
Argissa, 147
Artemia, 17, 131, 132
  nauplii, 17
Asio otus, 68
Assimilation numbers, 123, 124
Astroscopus guttatus, 245
Atlantic croaker, 245
  herring, 243
  manta, 242
  menhaden, 242
    larvae, 196, 197
  needlefish, 243
  silverside, 64, 246

B

BOD, 34–6
Bacterial contamination
  blue crab, 195
Bairdiella chrysura, 133, 238–41, 244
Balanus eburneus, 56, 161, 167, 168, 172
  improvisus, 56, 161, 167, 168, 172
Barn owl, 67
Barnacles, 55, 59, 60
  flatworm predation on, 55, 56, 58–60
Bason, W. H., and R. F. Denoncourt, 132–4
Bass, striped, (see striped bass)
Bathyporeia, 146, 149, 150
Bay anchovy, 243
Beaver, 63, 64
Bigeye, short, 244
Bittium atternatum, 161, 163, 172
  varium, 250, 251, 253, 254
Black crappie, 38–40
Black drum, 245
Black seabass, 244
Blackcheek tonguefish, 247, 260
Bloodworm, 250, 254
Blue crab, 195
  bacterial contamination, 195
Blueback herring, 242
Bluefish, 244
Bluegill, 38–40
Bluntnose stingray, 242
Bostrychia rivularis, 62
Bousfield, E L., 143–154
Brachidontes citrinus, 164, 165
  exustus, 164
  recurvus, 161, 164, 165, 172
Branchiomma vesiculosum, 131
Brevoortia tyrannus, 64, 196, 240–2
Bridle shiner, 174, 177
  dispersal, 176–8
  distribution, 175, 176
  ecology, 175, 176
  nuptial tubercles, 179
Brown bullhead, 38–40
Brown, M. L., and D. M. Harman, 183–90
Brown-headed cowbirds, 67
Bryopsis plumosa, 62
Bubo bubo, 68
  virginianus, 68
Bufo w. fowleri, 97
Bullhead, yellow, 38, 40
Burbidge, R. G., J. R. Chamers, and W. A. Van Engel, 255–8
Burrell, V. G., Jr., and W. A. Van Engel, 139–40
Burrfish, striped, 247
Butterfish, 246
Butterfly ray, smooth, 242
  spiny, 242

C

Calder, D. R., 130–2
Callinectes sapidus, 29, 170, 172
Callithamnion byssoides, 62
  corymbosum, 62
  roseum, 61, 62
Caprella equilibra, 161, 168, 172
Caranx hippos, 244
Carcharhinus milberti, 242
Carcharias taurus, 241
Carp, 38, 40
Castagna, M., and C. E. Richards, 235–48
Castor canadensis, 63
Catch per unit effort, 73, 83
Catch-per-unit of licensed gear, 73, 83, 86, 87, 90, 93
Catfish, channel, 38, 40
  white, 37, 38, 40
Centropristes striatus, 238, 239, 241, 244
Ceramium fastigiatum, 62
  rubriforme, 61, 62
  rubrum, 62
Chaetopterus variopedatus, 162, 171, 299–32
Chain pickeral, 38, 40
Chambers, J. R., R. G. Burbidge, and W. A. Van Engel, 255–8
Champia parvula, 62
Chanley, P., and M. LaBarbera, 42
Channel catfish, 38, 40
Channel net, 196, 197
Chermes strobilobius, 31
Chilomycterus schoepfi, 247
Chione cancellata, 42, 43, 46, 47
Chiridothea, 152
  caeca, 135
  nigrescens, 135
Chlamydomonas, 250
Chlorella sp., 48, 56
Chlorophyll *a*, 117–24, 126
  concentration, 120, 121
  distribution, 120, 121, 123, 126, 127
Chondria sedifolia, 62
  tenuissima, 62
Chub, yellow, 66
Cirriformia filigera, 161, 162, 171
Cistenides gouldii, 161, 162, 171
Cladocera, 252
Clam
  spawning, 43
  Venerid, 42
Clearnose skate, 242
Clupea harengus, 243

Clymenella torquata, 162, 171
Cobia, 244
Codakia orbicularis, 165
Common shiner, 38, 40
Conger eel, 243
Conger oceanicus, 243
Corophium, 50
  lacustre, 51
Cory, R. L., and J. W. Nauman, 199–209
Costlow, J. D., and K. S. Ong, 16–29
Cownose ray, 242
Crab, blue, 195
Crabs, large scale rearing efforts, 29
Crangon septemspinosus, 51
Crappie, black, 38–40
Crassostrea virginica, 55, 111, 130, 161, 165, 172
Creek chubsucker, 38, 39, 40
Crepidula fornicata, 172
Crevalle jack, 244
Croaker, Atlantic, 245
Croker, R. A., 134–7
Cross, F. A., T. W. Duke, and J. N. Willis, 221–34
Ctenophore, 139, 140
Cunner, 245
  spawning, 137
Cusk-eel, striped 246
Cynoscion regalis, 133, 134, 239, 244
Cyprinodon variegatus, 237, 240, 241, 243

D

DDT, 3
DO, 35, 36, 40
Dahlberg, M. D., 260, 261
Dahurian larch, 32
Dasya pedicellata, 62
Dasyatis americana, 242
  centroura, 242
  sayi, 242
Decapoda, 136
Denoncourt, R. F., and W. H. Bason, 132–4
Desmotrichum undulatum, 61, 62
Detritus, 249, 250, 253, 254
Dictyosiphon foeniculaceus, 61, 62
Dictyota dichotoma, 61, 62
Diopatra cuprea, 229–32
Dissolved oxygen, 205, 206, 208, 209
  solids, 35, 36
Dogfish, smooth, 242
  spiny, 242
Dogielinotus, 145, 150
  loquax, 145, 151
Dosinia (Phacosoma) japonica, 166
Drift gillnet, 81–3, 86, 88
Drum
  black, 245
  red, 245
Duke, T. W., F. A. Cross, and J. N. Willis, 221–34

E

Eagle owl, 68
Eastern larch, 31, 183
Echeneis naucrates, 247
Ectocarpus siliculosus, 62
Edotea triloba, 51
Eel, American, 243
  Conger, 243
Eelgrass, 249, 250, 253, 254
  detritus, 249, 250, 253, 254
    and bacteria, 249, 250, 252
    and bacteria assimilation, 249–54
Electrohydraulics, 112, 114, 115
Elops saurus, 242
Emerita, 152
  talpoida, 136
Enchelyopus cimbrius, 197, 198
Enneacanthus obesus, 177
Ensis, 166
  directus, 165, 166, 172
Enteromorpha intestinalis, 62
  linza, 61, 62
  plumosa, 62
Eohaustorius, 144, 148, 153
Ephemeroptera, 51
Epitonium rupicolum, 161, 163, 172
Erichsonella attenuata, 161, 168, 172
  filiformis, 51
Erimyzon o. oblongus, 177
Erythrotrichia rhizoidea, 62
Esox a. americanus, 177
  niger, 177
Etheostoma f. fusiforme, 177
  olmstedi, 65, 66, 177
  olmstedi atromaculatum 65
Etropus crossotus, 246
  microstomus, 237, 238, 246
Euphotic zone, 119, 120, 127
Eupleura caudata, 163, 172
Euplica scripta, 164
Eupomatus dianthus, 163
  uncinatus, 171
European larch, 31, 32
Euthyploica, 51

F

Fallfish, 38, 40
Fall line, 37, 39
Fatty acids, 216–20
Fecal pellets, invertebrate, 159–72
Filefish, planehead, 247
Fish
  abundance, 40, 73, 74, 83, 87
  blind, 132–4
  catch per unit effort, 73, 83
  catch-per-unit of licensed gear, 73, 83, 86, 87, 90, 93
  commercial landings, 73, 81, 82
  community, 39
  diet, 50, 52
  diseases
    lymphocystis, 137–9
  dispersal, 176–8
  dissolved solids, 35, 36
  distribution, 175, 176
  diversity, 40
  dominant year class, 89, 91, 92
  ecology, 175, 176
  food habits, 51, 52
  gonadal biopsy, 210, 212, 215
  landings, 73–86, 88–92
  lymphocystis, 137–9
  migration, 37, 39
  migratory habits, 210
  nuptial tubercles, 179
  population, 35, 39
  resident species, 39
  spawning, 137
  squirrel, 244
  tagging, 212–5
Fishery, 73, 74, 76, 83, 89, 92
Fishing gear, 81
Fixed gillnet, 81–3, 86, 87, 90
Flatworm
  environmental control of, 56, 57
  predation on barnacles, 55, 56, 58–60
  predation on oysters, 55, 67–9
  predator source, influence on, 58, 60
  prey size, influence on, 57, 58
  salinity, influence on, 56, 57, 59
  temperature, influence on, 56, 57
Flemer, D. A., 117–29
Floating trap, 81, 82
Flounder, fringed, 246
  smallmouth, 246
  summer, 246
  winter, 247
Fourbeard rockling, 197, 198
Fourspine stickleback, 244
Fringed flounder, 246
Fucus vesiculosus, 61, 62
Fundulus heteroclitus, 237, 240, 241, 243
  luciae, 237, 240, 243
  majalis, 237, 240, 241, 243
Fulvia mutica, 165
Fyke net, 82

G

Gag, 244
Galeocerdo cuvieri, 242
Gammarus, 144, 145, 151, 152
  lawrencianus, 144
  mucronatus, 168, 172
  tigrinus, 152
Gasterosteus aculeatus, 244
Gelidium crinale, 62
Gemma gemma, 43, 47
Genys, J. B., 1–15, 191–4
Genys, J. B., and D. M. Harman, 30–33
Gillnet, drift, 81–3, 86, 88
  fixed, 81–3, 86, 87, 90
  stake, 81
Glycera americana, 229–232
  dibranchiata, 161, 171, 230, 250, 254
Goatfish, red, 45
Gobiosomo bosci, 51, 52, 237, 240, 245
  ginsburgi, 245
Goby, 245
  green, 245
  seaboard, 245
Golden shiner, 38–40
Goldfish, 38, 40
Goniotrichum alsidii, 62
Goosefish, 247
Gracilaria foliifera, 62
  verrucosa, 61, 62
Grant, G. C., and D. F. Markle, 50–4
Grass shrimp, 250–2
Great horned owl, 68
Green goby, 245
Green sunfish, 38, 40

Grinnellia americana, 62
Gymnura altavela, 242
micrura, 242

H

Hake, spotted, 244
squirrel, 244
Halfbeak, 243
Hammerhead, smooth, 242
Handline, 81–3, 86
Harman, D. M., and J. B. Genys, 30–3
Harman, D. M., and M. L. Brown, 183–90
Harpinia spp., 146
Haul seine, 81–3, 86–8, 90
Haustoriid amphipod, 134–6
Haustorius, 147–9, 151
arenarus, 135, 150, 152
canadensis, 136, 151, 152
Haven, D. S., and J. Kraeuter, 159–73
Hepatitis, virus, 68
Hermoine hystrix, 232
Herring, Atlantic, 242
blueback, 242
Hettler, W. F., Jr., G. N. Johnson, R. M. Lewis, and E. P. H. Wilkens, 196, 197
Hickory shad, 242
Hippocampus erectus, 244
Hippolyte pleuracantha, 161, 169, 172
Hoff, J. G., 64, 65
Hogchoker, 247
Hogsucker, northern, 38–40
Holocentrus ascensionis, 244
House sparrows, 67
Hybrid larch, 31, 32
Hydroid, *Proboscidactyla*, 130–2
Hyla chrysoscelis, 94–7
crucifer, 97
versicolor, 94–7
Hypnea musciformis, 62
Hyporhamphus, 243

I

Ictalurus nebulosus, 177
Idotea baltica, 161, 168, 172
Ingestive conditioning, 58, 60
Inshore lizardfish, 243
Isochrysis galbana, 43, 48
Isopoda, 135

J

Japanese larch, 31, 32, 184, 186–8
Jenkins, R. E., and T. Zorach, 174–82
Johnson, G. N., W. F. Hettler, Jr., R. M. Lewis, and E. P. H. Wilkens, 196–7

K

Killifish, rainwater, 243
spotfish, 243
striped, 243
Kingfish, northern, 245
southern, 245
Koo, T. S. Y., 73–93
Kraeuter, J., and D. S. Haven, 159–73
Krantz, G. E., 137–9
Kyphosus incisor, 66

L

LaBarbera, M., and P. Chanley, 42
Ladyfish, 242
Laeonereis culveri, 51
Laevicardium, 166
mortoni, 161, 165, 166, 172
Lagocephalus laevigatus, 247
Landers, W. S., and E. W. Rhodes, Jr., 55–60
Larch, 183
aphid, wooly, 31
Dahurian, 32
European, 31, 32
hybrid, 31, 32
Japanese, 31, 32, 184, 186–8
sawfly, 30, 183, 185
feeding, 30–2, 183, 184, 187, 189
insecticide control, 30
larvae, 30, 183–9
larval mortality, 188
overwintering, 30
Siberian, 31, 32
western, 31, 32
Largemouth bass, 38, 40
Larix, 30, 31, 183
decidua, 31
deciduax x leptolepis F_2, 31-2
gmelini var *principis rupprechtii*, 31
larcina, 30
leptolepis, 31
occidentalis, 30
siberica, 31
Larson, J. S., and J. A. Moore, 63–4
Larvae
Atlantic menhaden, 196–7
larch sawfly, 30, 183–9
stone crab, 16, 17
Venerid clam, 43, 46–9
Leathesia, 61
difformis, 62
Leiostomus xanthurus, 240, 245
Lemon shark, 242
Lepidactylus, 147, 148, 151
dytiscus, 136, 152
Lepidametria commensalis, 51
Lepomis gibbosus, 51, 177
Leptodora kindtii, 255-7
Lewis, R. M., W. F. Hettler, Jr., G. N. Johnson, and E. P. H. Wilkens, 196, 197
Libinia dubia, 170, 172
Ligyda occidentalis, 167
Limulus polyphemus, 136
Lipid, 216
Little Patuxent River, 34
fish abundance, 40
fish community, 39
fish diversity, 40
fish migration, 37, 39
population, 35, 39
resident species, 39
Littorina irrorata, 161, 163, 171
Lizardfish, inshore, 243
Loblolly pine, 191–4
Locke, L. N., and J. A. Newman, 67, 68
Lomentaria baileyana, 62
Long-eared owl, 68
Longhorn sculpin, 245
Lophius americanus, 247
Lucania parva, 237, 240, 243
Lucina multilineata, 165, 172
pennsylvanica, *165*
Ludwick, J. C., *98–110*
Lymphocystis, *137–9*
Lyonsia hyalina, 167, 172

M

MacIntyre, W. G., and T. B. Stauffer, 216–20
Macoma baltica, 165, 166, 172
tenta, 161, 165, 166, 172
Maja squindo, 69
Manta birostris, 242
Marginal madtom, 38, 40
Marine algae, 61, 62
Markle, D. F., and G. C. Grant, 50–4
Medusa, *Proboscidactyla*, 130–2
Megalops atlantica, 242
Megaluropus, 147
Melampus bidentatus, 161, 163, 164, 172
coffeus, 164
Melinna maculata, 161, 163, 171
Melita fresneli, 161, 168, 172
Membras martinica, 240, 246
Menhaden, 64
Atlantic, 242
Menidia spp., 51
beryllina, 246
menidia, 64, 133, 237, 238, 240, 241, 246
Menippe mercenaria, 16–22, 25–9
Menticirrhus americanus, 245
saxatilis, 245
Mercenaria campechiensis, 44, 47
mercenaria, 43, 44, 46–8, 130, 161, 165, 166, 172
Meretrix lusoria, 166
rudis, 44
Mesoleius tenthrendinis, 30
Microgobius thalassinus, 245
Micropogon undulatus, 245
Minchinia nelsoni, 111
Minnow, sheepshead, 243
Mitrella lunata, 164, 172
Mnemiopsis leidyi, 139
Modiolus demissa, 161, 164, 165
Molgula manhattensis, 168, 170
Molothrus ater, 67
Monochrysis lutheri, 43, 48
Monoculodes, 147
edwardsi, 51
Monostroma, 62
Montacuta elevata, 165
Moore, J. A., and J. S. Larson, 63, 64
Morone americana, 244
saxatilis, 50, 73, 210, 238, 240, 244
Mugil cephalus, 240, 241, 246
curema, 240, 242, 246
Mulinia lateralis, 161, 165, 166, 172
Mullet, striped, 246
white, 246
Mullus auratus, 245

Mummichog, 243
Mustelus canis, 239, 242
Mya, 167
  arenaria, 167, 172
Mycteroperca microlepsis, 244
Myoxocephalus octodecemspinosus, 245
Mytilus edulus, 161, 164, 165, 172

N

Naked goby, 245
Nantucket pinetip moth, 3, 4, 5, 11, 192, 194
Nassarius obsoletus, 164, 172
  vibex, 164, 172
Nauman, J. W., and R. L. Cory, 199–209
Neanthes succinea, 51, 160, 161, 171
Needlefish, Atlantic, 243
Negaprion brevirostris, 242
Neodiprion sertifer, 14
Neohaustorius, 148–52
  biarticulatus, 136
  schmitzi, 151, 152
Neomysis americana, 51
Neomysis mercedis, 50
Neopanpope texana sayi, 161, 169, 170, 172
Nephtys, 136
  bucera, 136
  incisa, 136, 160, 170
Nereis sp., 230–2
  arenaceodonta, 136
Net, channel, 196, 197
Newman, J. A., and L. N. Locke, 67, 68
Niphargoides, 145
Nitella, 176
Nitrate analysis, 155–7
Nitridella ocellata, 164
Nitrogen analysis, 156, 157
Northern hogsucker, 38–40
  kingfish, 245
  pipefish, 244
  puffer, 247
  redhorse, 37, 38, 40
  sculpin, 245
  searobin, 245
  sennet, 246
Notemigonus crysoleucas, 177
Notropis, 180
  bifrenatus, *174–81*
  buchanani, 180
  hudsonius, 51
  volucellus, 180
Nyctea scandiaca, 68

O

Odostomia bisuturalis, 164, 172
Ogyrides limicola, 161, 169, 172
Ong, K. S., and J. D. Costlow, 16–29
Opsanus tau, 237, 239, 240, 247
Organic enrichment, 36, 92
Orthopristis chrysopterus, 238, 239, 244
Otter trawl, 81, 82
Owl, eagle, 68
  great horned, 68
  long-eared, 68
  snowy, 68
  tawny, 68
Oxyurostylus smithi, 167, 168, 172
Oyster drill, 58
  reef, 61
  spat, 58, 59
  toadfish, 247
Oysters, 55–9, 111–4
  flatworm predation on, 55–9
  gaped, 111, 113, 115

P

Padina gymnospora, 232
Pagurus longicarpus, 169, 170, 172
Palaemonetes pugio, 161, 169, 172, 250–4
  sp., 51
  vulgaris 161, 169, 172
Panopeus, 170
  herbsii, 169, 170, 172
Paparella, M. W., and M. Allen, 111–6
Paphia philippinorum, 45
  staminea, 44
Parahaustorius, 148
Paralichthys dentatus, 238, 246
Paratyphoid, 68
Passer domesticus, 67
Patuxent River, 34
  estuary, 199, 201
    dissolved oxygen, 205, 206, 209
    salinity, 204, 205, 208, 209
    temperature, 199–203, 208
    tides, 207–9
    tubidity, 206–9
    water quality, 199, 200
Peprilus triacanthus, 239, 246
Perch, silver, 244
  white, 37, 38, 40, 244
  yellow, 38–40
Permit, 244
pH, 35, 36
Phaeodactylum tricornutum, 56
Phoronis architecta, 171
Phosphorus analysis, 155–7
Photosynthesis, 118, 127
Physical environment, 36
Phytoplankton, 117, 126
Pickeral, chain, 38, 40
Pigfish, 244
Pine, Scotch, 1–3, 5–7, 12–4
Pinus rigida, 191
  X *Pinus teada*, 191, 192
  sylvestris, 1, 13
    var *acquitana*, 5, 6, 10, 12–4
    var *altaica*, 5, 8, 12–4
    var *armena*, 10, 12, 13
    var *borussia*, 5, 8, 12
    var *haguenensis*, 5, 9, 12, 14
    var *hercynica*, 5, 9, 12
    var *iberica*, 6, 10–4
    var *illyrica*, 11, 12
    var *lapponica*, 5–7, 12–4
    var *mongolica*, 8, 12–4
    var *polonica*, 5, 8, 12
    var *rhodopaea*, 11, 12
    var *rigensis*, 8, 12, 14
    var *scotica*, 5, 10, 12, 14
    var *scotica* X?, 10, 12
    var *septentrionalis*, 5, 7, 12
    var *uralensis*, 8, 12, 13
  teada, 191
Pipefish, northern, 244
Pitar morrhuana, 44, 47
Pitch X loblolly pine hybrid, 191, 194
Pitch pine, 191, 194
Planehead filefish, 247
Platyischnopus, 146, 149
Platymonas sp., 48
Pleuronectes flesus, 137
Pogonias cromis, 240, 245
Pollachius virens, 243
Pollock, 243
Polychaetous worms, trace elements, 221–4, 229–32
Polysiphonia denudata, 61, 62
  harveyi, 62
  nigrescens, 62
  subtilissima, 62
Pomatomus saltatrix, 244
Pontoporeia, 146, 149, 151
Porphyra leucostitica, 62
  minima, 62
Potamogeton, 176
Pound net, 82, 83, 86–8, 90
Predation on oysters, 55, 67–9
Primary production, 117, 118, 123–6
Prionotus carolinus, 238, 245
  evolans, 245
Priscillina, 145
Pristigenys alta, 244
Pristiphora erichsonii, 30, 183
Proboscidactyla, 130–2
  circumsabella, 132
  flavicirrata, 132
  hydroid, 130–2
  medusa, 130–2
  occidentalis, 132
  ornata, 130–2
  stellata, 132
Protohaustorius, 147, 148, 153
Protothacea staminea, 44
Pseudacris triseriata, 97
Pseudohaustorius, 148, 149, 153
  americanus, 150
Pseudopleuronectes americanus, 238–41, 247
Puffer, northern, 247
  smooth, 247
Pumpkinseed, 38–40
Punctaria, 61
  latifolia, 61, 62

R

Rachycentron canadum, 244
Rainwater killifish, 243
Raja eglanteria, 238, 242
Rana pipens, 96, 97
Ray, smooth butterfly, 242
  spiny butterfly, 242
Red drum, 245
  goatfish, 245
Redbreast sunfish, 38–40
Retusa canaliculata, 161, 163, 164, 171
Rhinoptera bonasus, 242
Rhodes, E. W., Jr., and W. S. Landers, 55–60
Rhodes, R. G., 61–3
Richards, C. E., 67
  and M. Castagna, 235–48

Rissola marginata, 246
Ritchie, D. E., Jr., 210–15
Roccus americanus, 133, 134 (see also *Morone americanus*)
saxatilis, 132–4, 137 (see also *Morone saxatilis*)
Rough silverside, 246
Roughtail stingray, 242
Ryaconia frustrana, 3, 12, 192

S

Sabella microphthalma, 131
Sabellaria, 258, 259
reef masses, 258, 259
vulgaris, 162, 171, 258, 259
Salinity, 204, 205, 208, 209
dominant year class, influence on, 91
flatworm predation on oysters, influence on, 56, 57, 59
Salmonella typhimurium, 67, 68
Sand shark, 241
Sand wave distribution, 103
morphology, 103
waves, 98–100, 102, 103, 106–9
Sandbar shark, 242
Saxidomus giganteus, 45
Scaphiopus h. holbrooki, 96
Sciaenops ocellata, 245
Scolelepis squamata, 136
Scoloplos fragilis, 136
Scophthalmus aquosus, 238, 247
Scotch pine, 1–3, 5–7, 12–4
foliage color, 6, 14
growth rate, 5
leaf length, 12, 14
survival, 5, 14
susceptability to Nantucket pine tip moth, 13
Sculpin, 245
northern, 245
Scup, 245
Scylla serratta, 29
Scytosiphon, 61
lomentaria, 61, 62
Seaboard goby, 245
Seahorse, spotted, 244
Searobin, northern, 245
striped, 245
Secchi disc, 118
Sennet, 246
Sewage, chlorinated, 34–7, 39
discharge, 34–5
Shad, hickory, 242
Shark, lemon, 242
sand, 241
sandbar, 242
thresher, 242
tiger, 242
Sharksucker, 247
Sheepshead minnow, 243
Shiner, bridle, 174, 177
Short bigeye, 244
Shrimp, grass, 250–2
large-scale rearing efforts, 29
Siberian larch, 31, 32
Silver perch, 244
Silverside, Atlantic, 64, 246
rough, 246
tidewater, 246
Skate, clearnose, 242
Smallmouth bass, 38–40
flounder, 246
Smooth butterfly ray, 242
dogfish, 242
hammerhead, 242
puffer, 247
Snails, 253
Snowy owl, 68
Solen, 166
gouldi, 166
Southern kingfish, 245
stingray, 242
Spartina, 61
alterniflora, 235
Sphaeroma, 167
quadridentatum, 167, 168, 172
Sphoeroides maculatus, 238, 241, 247
Sphyraena borealis, 246
Sphyrna zygaena, 242
Spiny butterfly ray, 242
dogfish, 242
Spot, 245
Spotfin killifish, 243
Spotted hake, 244
seahorse, 244
Spiochaetopterus oculatus, 162, 171
Spyridia filamentosa, 62
Squalus acanthias, 242
Squatina dumerili, 242
Squirrel fish, 244
hake, 244
Stake gillnet, 81
Stauffer, T. B., and W. G. MacIntyre, 216–20
Stenotomus chrysops, 238, 245
Stephanolepsis hispidus, 247
Stickleback, fourspine, 244
threespine, 244
Stingray, bluntnose, 242
roughtail, 242
southern, 242
Stone crab, 16
larvae, 16, 17
mortality, 25–8
number of larval stages, 27, 28
rate of development, 19, 27, 28
salinity, effects on, 16–27, 29
survival, 25, 27–9
temperature, effects on, 16–27, 29
megalopa, 17, 23–8
zoeae, 17, 19–23, 25–8
Striaria attenuata, 61, 62
Striped anchovy, 243
Striped bass, 50–2, 73, 74, 77, 81, 82, 89, 210, 212, 244
abundance, 73, 74, 83, 87
blind, 132–4
catch per unit effort, 73, 83
catch per unit of licensed gear, 73, 83, 86, 87, 90, 93
commerical landings, 73, 81, 82
diet, 50, 52
dominant year class, 89, 91, 92
fishery, 73, 74, 76, 83, 89, 92
fluctuation, 89, 91
food habits, 51, 52
gonadal biopsy, 210, 212, 215
landings, 73–86, 88–92
lymphocystis, 137–9
migratory habits, 210
sports catch, 73, 92
tagging, 212–5
Striped burrfish, 247
cusk-eel, 246
killifish, 243
mullet, 246
searobin, 245
Strix aiuco, 67
Strongylura marina, 240, 243
Stylochus ellipticus, 55–60
inimicus, 58
Sucker, white, 37, 38, 40
Summer flounder, 246
Sunfish, green, 38, 40
redbreast, 38–40
Suspended solids, 35, 36
Symphurus diomedianus, 260
plagiusa, 247, 260
Syngnathus fuscus, 133, 237, 238, 240, 244
Synodus foetens, 243

T

Tagelus plebeius, 161, 165, 166, 172
Talorchestia spp., 151
longicornis, 135
Tamarack, 30, 183
Tapes rugatus, 45
(*Amygdala*) *semidecussata*, 45, 166
Tarpon, 242
Tatro, M. C., and J. C. Ward, 195, 196
Tautog, 245
Tautoga onitis, 245
Tautogolabrus adspersus, 137, 245
Tawny owl, 67
Tellina crassa, 166
donacia, 166
Temperature, 199–203, 208
dominant year class, influence on, 91
flatworm predation on oysters, influence on, 56, 57
Thalassia testudinum, 232
Thayer, G. W., 155–8
Threespine stickleback, 244
Thresher shark, 242
Tidewater silverside, 246
Tiger shark, 242
Tmetonyx nobilis, 145
Toadfish, oyster, 247
Trace elements, 221, 222, 225, 227–9, 232
cycling, 222, 223
distribution, 221, 223, 225, 231
Trachinotus falcatus, 244
Treefrog, 94, 95
distribution, 96
mating call, 94, 95
Trichophoxus, 145
epistomus, 145
Trigoniocardium medium, 166
Trinectes maculatus, 133, 134, 247
Tripneustes esculentus, 232
Turbidity, 206–9
Turbonilla interrupta, 164, 172
stricta, 164, 172
Tyto alba, 67

U

Uca minax, 161, 169, 170, 172
pugnax, 169, 170, 172

Ulva lactuca, 48, 61, 62
Umbra pygmaea, 177
Upogebia affinis, 161, 168, 169, 172
  deltaura, 170
  stellata, 170
Urophycis chuss, 244
  regius, 238, 244
Urosalpinx cinerca, 58, 164, 172
Urothoe, 145, 150, 153

V

Van Engel, W. A., J. R. Chambers, and R. G. Burbidge, 255–8
  and V. G. Burrell, Jr., 139, 140
Venerid clam, 42
  color, 46
  larvae, 43, 46–9
  shape, 43
  spawning, 43
  umbo stage, 43
Veneridae, 42
Venerupis philippinorum, 45
  pullastra, 45
Venus gallina, 45
  ovata, 45
Virus hepatitis, 68
Volsella demissa, 172

W

Ward, J. C., and M. C. Tatro, 195, 196
Water quality, 35, 36
Weakfish, 244
Wells, H. W., 258–60
Western larch, 31, 32
White catfish, 37, 38, 40
  mullet, 246
  perch, 37, 38, 40, 244
  sucker, 37, 38, 40
Wicklund, R. I., 137
Wilkens, E. P. H., 197, 198
Wilkens, E. P. H., W. F. Hettler, Jr., G. N. Johnson, and R. M. Lewis, 196, 197
Williams, A. B., 69
Willis, J. N., F. A. Cross, and T. W. Duke, 221–34
Windowpane, 247
Winter flounder, 247
Wooly larch aphid, 31
Worms, 55–9

X

Xiphosura, 136

Y

Yellow bullhead, 38, 40
  chub, 66
  perch, 38–40

Z

Zorach, T., 65, 66
  and R. E. Jenkins, 174–82
Zostera, 131
  marina, 249
Zweifel, R. G., 94–7